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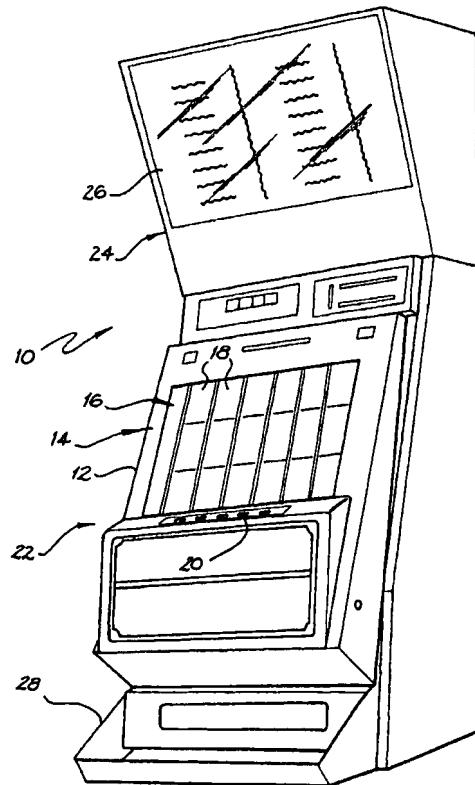
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GAMING MACHINE WITH BUY FEATURE GAMES



(57) Abstract: A gaming machine (10) includes a display (14). The display (14) includes a plurality of display positions (18) for displaying combinations of symbols. A controller controls operation of the machine. The controller includes a processor for processing data and displaying selected data on the display (14). A selecting arrangement (20) is operable by the player of the machine (10) for enabling the player to select at least one feature which can be added to a base game played on the machine (10).

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## Gaming machine with buy feature games

### Field of the Invention

5 The present invention relates to a gaming machine. More particularly, the invention relates to a gaming machine of the type known as a slot machine or a fruit machine. Certain types of these machines have a series of rotatable reels, each of which displays a series of symbols or a video simulation of such a mechanism while other types of machines are arranged to play video simulations of card games or other types of wagering games, 10 such as bingo or keno. The invention has particular application to an improved game played on such a machine.

### Background to the Invention

15 Players regularly playing gaming machines need to have their interests maintained. Therefore, it is necessary for manufacturers of these machines to develop inventive game features which add interest to the games provided on such machines in order to keep the players entertained and willing to continue to play the games.

20 There is a continuous trade-off between what the players of the machines want and what the operators of the machines want from the machines. Naturally, operators want the players to stake more money per game so that the overall turnover is higher. Conversely, players will not do this unless they feel that they are getting more for the extra money that they are betting.

25 Further, as the range of machines and games increases, it is becoming increasingly important to offer more options to the players. The more options that are available in one machine, the easier it is to maintain the player's interest and the easier it is for players to be able to gain access to a machine that will offer them exactly the game that they want.

30 To date, most types of video gaming machines which are available to players offer limited options. At best, a range of bet sizes and paylines upon which the players can bet are offered. Certain machines also offer a double-up option available after a win while other machines have various ranges of paytables particularly for higher bets.

**Summary of the Invention**

According to the invention there is provided a gaming machine which includes:

5      a display means including a plurality of display positions for displaying combinations of symbols;

10     a control means for controlling operation of the machine, the control means including a processing means for processing data and displaying selected data on the display means; and

15     a selecting means operable by a player of the machine for enabling the player to select at least one feature which can be added to a base game played on the machine.

The base game may have no features at all. For example, in the case of a video simulation of a spinning reel game, there would be no scatter symbol or substitute symbol or feature triggered by the occurrence of a predetermined or random event. Instead, by means of the selecting means, the player may be able to select at least one and, preferably, a range of features that can be added to the base game to tailor the base game to the player's requirements. Various features may be offered. For example, certain symbols may be selected to pay as scatter symbols or substitute symbols as well as or in addition to the standard pays. Other examples include additional types of pays, for example, right to left as well as the basic left to right pay or bonus features such as free games, bonus pays, etc which are triggered by certain combinations.

25    Certain features may be offered as no-cost features which are selected by the player by means of the selecting means. Other features may have a cost associated therewith with a player having to stake additional credit to obtain the feature or eligibility to the feature. If desired, the bet to obtain one or more features may be independent of the type or size of bet made on the base game. Thus, it is not necessary for the maximum bet to be placed on the base game before access can be gained to the range of features. In addition, the cost for the various features may differ depending on the type of feature or range of features selected.

30    In one embodiment of the invention, where only one additional feature or a range of the same type of feature is offered, the additional credit staked by the player may be a multiple of a base bet wagered by the player.

35    Different multiples of the base bet may purchase different features of that

type. For example, a bet X2 feature may purchase two free spins, a bet X3 feature may purchase four free spins and bet X4 feature may purchase six free spins.

5 The selecting means may include a plurality of selectors, such as buttons on the midtrim, operable by the player to select the feature required before making the base bet. One of the buttons may be used by the player when only the base bet is to be staked.

10 Only one feature, if any, at a time may be selectable by the player by means of the selectors. For example, a standard bet with no additional feature may be wagered, or a bet with only one type of feature may be wagered.

15 The additional credit staked may only provide eligibility to a benefit provided by that feature, there being no guarantee that the feature will eventuate merely by having staked the additional credit. Hence, the player will not necessarily see a direct result of the extra stake for every game played. For example, a predetermined combination may need to appear to trigger the special feature (eg. free spins) or to pay a bonus prize (eg a right to left pay).

20 In another embodiment of the invention, the additional credit staked may be a fixed amount multiplied by a bet wagered per line (for a spinning reel game) or per draw (for a card game).

25 The feature for which the additional credit is staked may be triggered independently of the base game. In other words, a random selection is made by the control means as to whether or not to trigger the feature completely independently of the base game.

Further, the gaming machine may be a multi-game machine having various games. Then, the appropriate game may initially be chosen and, thereafter, the required feature or features for the game may be selected by the player.

30 The selecting means may include dedicated keys or buttons on a keypad of the gaming machine and/or a touch or interactive screen of the display mean for enabling the features and/or games to be selected.

**Brief Description of Drawings**

The invention is now described by way of example with reference to the accompanying diagrammatic drawings in which:

Figure 1 shows a three dimensional view a gaming machine;

5 Figure 2 shows a block diagram of a control means of the gaming machine;

Figure 3 shows a schematic plan representation of one embodiment of a keypad of the gaming machine;

10 Figure 4 shows a schematic representation of a first screen of the gaming machine;

Figure 5 shows a schematic representation of a second screen of the gaming machine;

15 Figure 6 shows a schematic representation of one embodiment of a third screen of the gaming machine;

Figure 7 shows a schematic representation of another embodiment of the third screen of the gaming machine; and

Figure 8 shows a schematic plan representation of another embodiment of a keypad of the gaming machine; and

20 Figure 9 shows a flow chart of the operation of the embodiment of the invention described with reference to Figure 8.

**Detailed description of the Drawings**

In Figure 1, reference numeral 10 generally designates a gaming machine, including a game, in accordance with the invention. The machine 25 10 includes a gaming console 12 having a video display unit 14. The video display unit includes a screen 16 on which reels 18 are simulated. A keypad 20, which is shown in greater detail in Figure 3 of the drawings, is mounted on a midtrim 22 of the machine 10.

The machine includes a topbox 24 on which a paytable 26 is arranged.

30 Referring now to Figure 2 of the drawings, a control means 30 of the machine 10 is illustrated. A program which implements the game and user interface is run on a processor 32 of the control means 30. The processor 32 forms part of a controller 34 which drives the screen 16 of the video display unit 14. The processor 32 receives input signals from a first group of sensors 36.1 which are responsive to keys of the keypad 20. A second group of

sensors 36.2 are touch sensors associated with the screen 16 of the video display unit 14.

The controller 34 also receives input pulses from a mechanism 38 indicating that a player has provided sufficient credit to begin playing. The mechanism 38 may be a coin input chute, a bill collector, a credit card reader, any other type of validation device, or a combination thereof.

The controller 34 also controls a payout mechanism 40 which, for example, may be a coin hopper for feeding coins to a coin tray 28 of the machine 10.

With the game of the gaming machine 10, a player playing the machine 10 has the option to make a bet that is a multiple of a base bet to buy an additional feature to the game. The additional bet need not be a multiple of the specified maximum bet of the machine 10. Thus, the player is allowed to, for example, double or treble their initial bet to be eligible for an additional game feature. In this way, even players who bet a single credit on one line (on a multi-line game), are eligible to buy features, by doubling or trebling their bets.

The extra bet that the player is required to make does not make any change to the game the player has bought other than to introduce eligibility to the feature. In other words, no additional pay lines are bought or linear increases made to the pay table as the extra bet is a dedicated bet towards the feature.

Referring now to Figure 3 of the drawings a modified keypad 20 for the machine is shown. Instead of, or in addition, to the touch screen facility in the screen 16 of the video display unit 14 of the machine 10, dedicated buttons 64 are provided on the keypad 20.

The keypad 20 has a conventional array of buttons 66 for enabling the player to select the number of lines of the machine on which to achieve a payout as well as a conventional array of buttons 68 for enabling the player to select the number of credits to be bet per line.

A "base bet" is represented by the buttons 68 labelled "Bet x credits per line" and the buttons 66 labelled "Play x lines". The feature of the game is that if a player stakes double the base bet by means of button 64.1 then, whenever a specified combination of symbols is spun up, certain reel positions will be held while the rest of the reels are spun again twice for free. For triple the base bet (button 64.2) the same combination would result in

four free spins and for quadruple the base bet (button 64.3) there would be six free spins. Thus, if the player is betting two credits per line on five lines then the base bet will be ten credits. If the player chooses to buy access to the four free spins feature by selecting the "four feature spins (bet x 3)" 5 button 64.2 then a game will cost the player thirty credits. The payline prizes will still only be multiplied by the player's bet per line of two credits, and prize combinations will still only apply on the five lines that have been bought. However, the additional feature of a specified combination of symbols awarding four re-spins of some of the reels will apply. Accordingly, 10 it will be noted that only the base bet or the base bet plus the additional credit for one type of feature may be wagered at any one time. Also, the mere wagering of the additional credit does not guarantee that the feature will occur. The wagering of the additional credit only provides eligibility for the applicable feature.

15 It will be appreciated that various other options could be provided by means of the appropriate number of buttons 64 on the keypad 20.

In this embodiment, other examples which are possible are, inter alia, the additional feature may be the purchase of a certain combination which, if obtained, will commence a free game series. Instead, an additional feature 20 trigger symbol may be purchased so that, in addition to an original trigger symbol, the additional trigger symbol also provides a free spin feature. Yet further, a right-to-left payout feature, in addition to the more conventional left-to-right payout can be bought.

To ensure versatility, the player may be given a choice of which 25 features the player wishes to buy. Then, various icons are displayed on the screen as will now be described with reference to Figures 4 to 7 of the drawings. In Figure 4, a basic game screen is shown and is designated generally by the reference numeral 50. The game screen has the usual reels 18 and multi-line pays as indicated by the arrows 52. If the player touches the icon "Prizes" as indicated at 54, a screen 56 shown in Figure 5 of the drawings is displayed to show what prizes are available to the player. By 30 touching the icon 58 entitled "Features" either a screen 60 as shown in Figure 6 of the drawings or a screen 62 as shown in Figure 7 of the drawings is displayed. The screens 60 and 62 are similar with the difference between the screens being that, in the case of the screen illustrated in Figure 7 of the 35

drawings, the bet to be made by the player is independent of the type of feature altogether.

The screen in Figure 6 or 7 allows the players to select the features required. The various icons illustrated as representations of the screens in Figures 6 and 7 are largely self explanatory. Suffice to say that a player can select various available options to construct their own games at a cost which that player can afford. The cost may be relative to an aspect of the base bet, ie the bet made for the basic game, or independent of the base bet. In addition, the player may be able to nominate the amount they wish to pay for 10 eligibility to a particular feature.

In addition, in this embodiment, various features may be offered by the machine 10 such as, for example, certain combinations of a particular symbol triggering a bonus mode where for the next 10 games each symbol of another type that appears pays a bonus. As a further example, a bought feature could be that a particular symbol acts as a substitute symbol for all other symbols or pays for scattered combinations instead of just on a pay line. Hence, it will be appreciated that a large number of features could be built into the machine 10 to be offered to the players. By the player increasing his or her initial bet, eligibility to the feature is gained.

Referring now to Figure 8 of the drawings, a keypad 20 in accordance with another embodiment of the invention is illustrated. With reference to Figure 3 of the drawings, like reference numerals refer to like parts, unless otherwise specified.

In this embodiment of the invention, instead of the buttons 64, a selection button 70 is provided.

In this embodiment of the invention, the player is required to make a special bet in order to be eligible for the feature. The feature, in this embodiment is the applicant's Mr Cashman. Mr Cashman is a trademark of the applicant and is described in detail in our co-pending PCT Application Number PCT/AU99/01059 dated 26 November 1999 and entitled "Player information delivery". The contents of PCT/AU99/01059 are specifically incorporated herein by reference. The selection of the Mr Cashman feature is by way of the selection button 70. If the player chooses not to play the Mr Cashman feature, then bets are made in the standard way using the standard buttons 66 and 68.

The Mr Cashman feature is, as illustrated, restricted to the maximum number of lines available for the game configuration. Thus, in the example illustrated, the Mr Cashman feature is provided when the player selects that feature and also elects to play the maximum number of lines being 20 lines.

5 By selecting the feature using the button 70, the player will be eligible to enter the Mr Cashman feature for that game.

The extra cost involved for eligibility to the Mr Cashman feature will be five credits multiplied by the number of credits bet per line. Hence, in the illustrated example, the player must stake 25 credits multiplied by the bet 10 per line in order to be eligible for the Mr. Cashman feature. Once again, the mere wagering of the additional credit does not guarantee that the feature will occur but only that the player is eligible for the feature. The Mr. Cashman feature is not triggered by any trigger condition in the base game. Rather, a random selection is made by the controller 34 completely 15 independently of the base game to determine whether the Mr. Cashman feature is to be triggered or not.

In other words, the player first makes a bet per line using the button 68 and then selects the number of lines to be played using buttons 66 or, where the player desires to include the Mr Cashman feature, the player activates the 20 button 70.

Then, for each game played with the extra feature, the player will have a predetermined probability of triggering the Mr Cashman feature to commence after the base game has been completed.

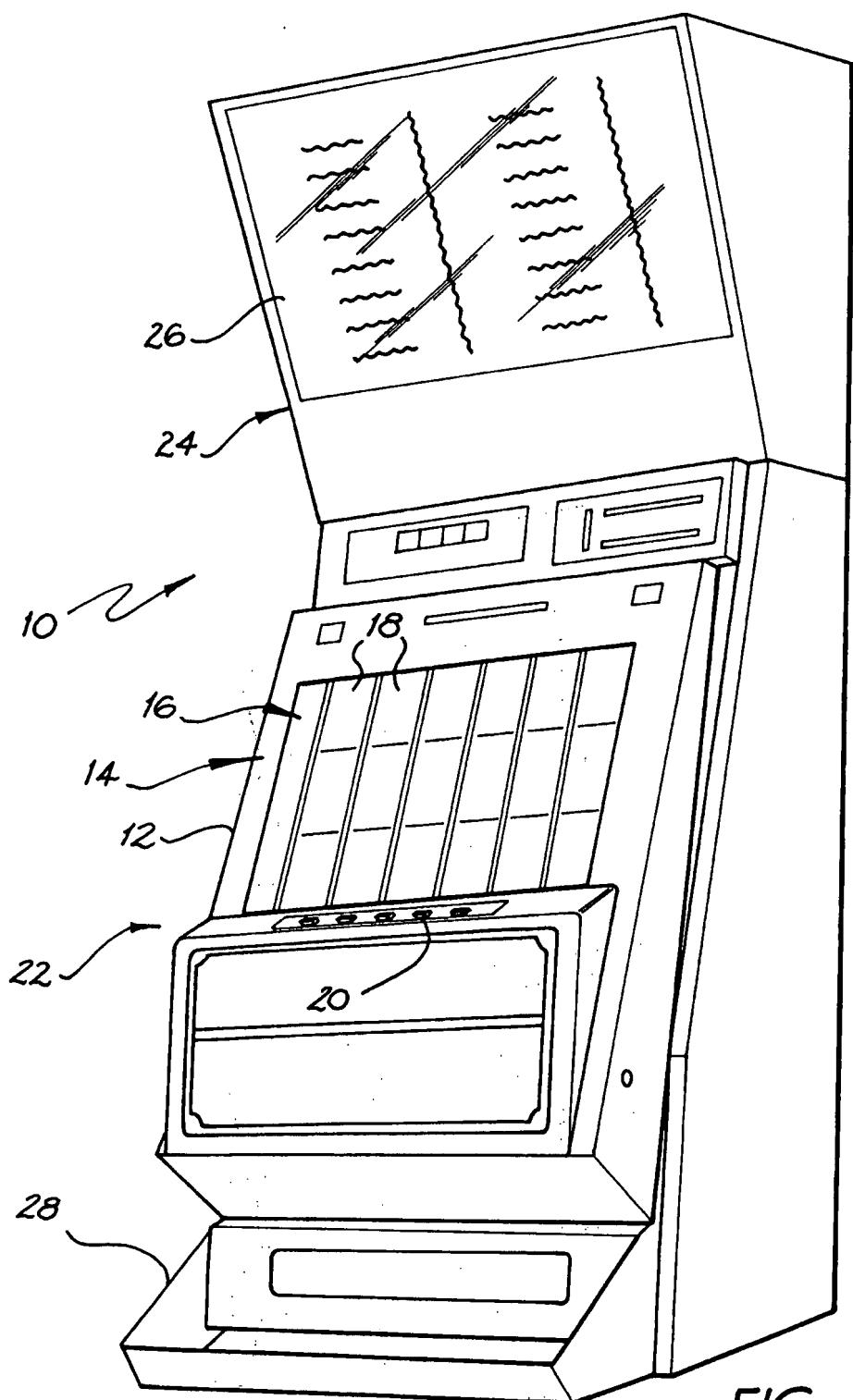
Accordingly, by means of the invention a more versatile gaming 25 machine 10 is provided which provides players with a greater number of options. In so doing, it is believed that the machines 10 will become more attractive to players.

It will be appreciated by persons skilled in the art that numerous 30 variations and/or modifications may be made to the invention as shown in the specific embodiments without departing from the spirit or scope of the invention as broadly described. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive.

**CLAIMS:**

1. A gaming machine which includes  
a display means including a plurality of display positions for  
displaying combinations of symbols;
- 5 a control means for controlling operation of the machine, the control  
means including a processing means for processing data and displaying  
selected data on the display means; and  
a selecting means operable by a player of the machine for enabling the  
player to select at least one feature which can be added to a base game  
10 played on the machine.
- 15 2. The gaming machine of claim 1 in which a cost of said at least one  
feature is independent of the number of credits played by the player in  
respect of the base game.
3. The gaming machine of claim 1 in which an additional credit staked by  
15 the player in order to be eligible for said at least one feature is a multiple of a  
base bet wagered by the player.
4. The gaming machine of claim 3 in which different multiples of the  
base bet purchase different features.
5. The gaming machine of claim 4 in which the selecting means includes  
20 a plurality of selectors operable by the player to select the feature required  
before making the base bet.
6. The gaming machine of claim 5 in which only one feature, if any, at a  
time is selectable by the player by means of the selectors.
7. The gaming machine of any one of claims 3 to 6 inclusive in which the  
25 additional credit staked provides eligibility to a benefit provided by that  
feature, there being no guarantee that the feature will eventuate merely by  
having staked the additional credit.
8. The gaming machine of claim 1 in which an additional credit staked by  
the player in order to be eligible for said at least one feature is a fixed amount  
30 multiplied by a bet wagered per line or per draw.
9. The gaming machine of claim 8 in which the feature is triggered  
independently of the base game.
10. The gaming machine of any one of the preceding claims in which the  
selecting means enables a player to select a range of features to enable the  
35 player to tailor the game to the player's requirements.

11. The gaming machine of claim 10 in which certain of the features are no-cost features while other features require the staking of additional credit by the player.
- 5 12. The gaming machine of any one of the preceding claims which is a multi-game machine having various games, the selecting means being used by the player to select one of the games as the base game.
13. The gaming machine of any one of the preceding claims in which the selecting means includes dedicated buttons on a keypad of the control means.
- 10 14. The gaming machine of any one of the preceding claims in which the selecting means includes touch sensors of a touch screen of a display means.



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FIG. 1

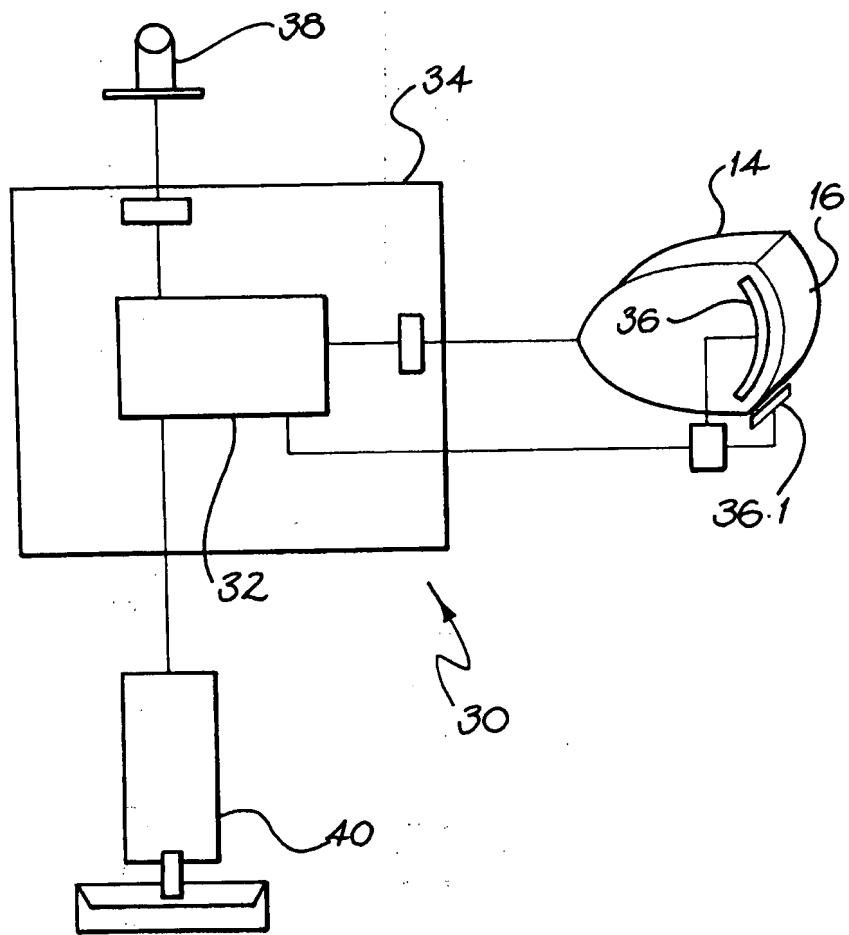


FIG. 2

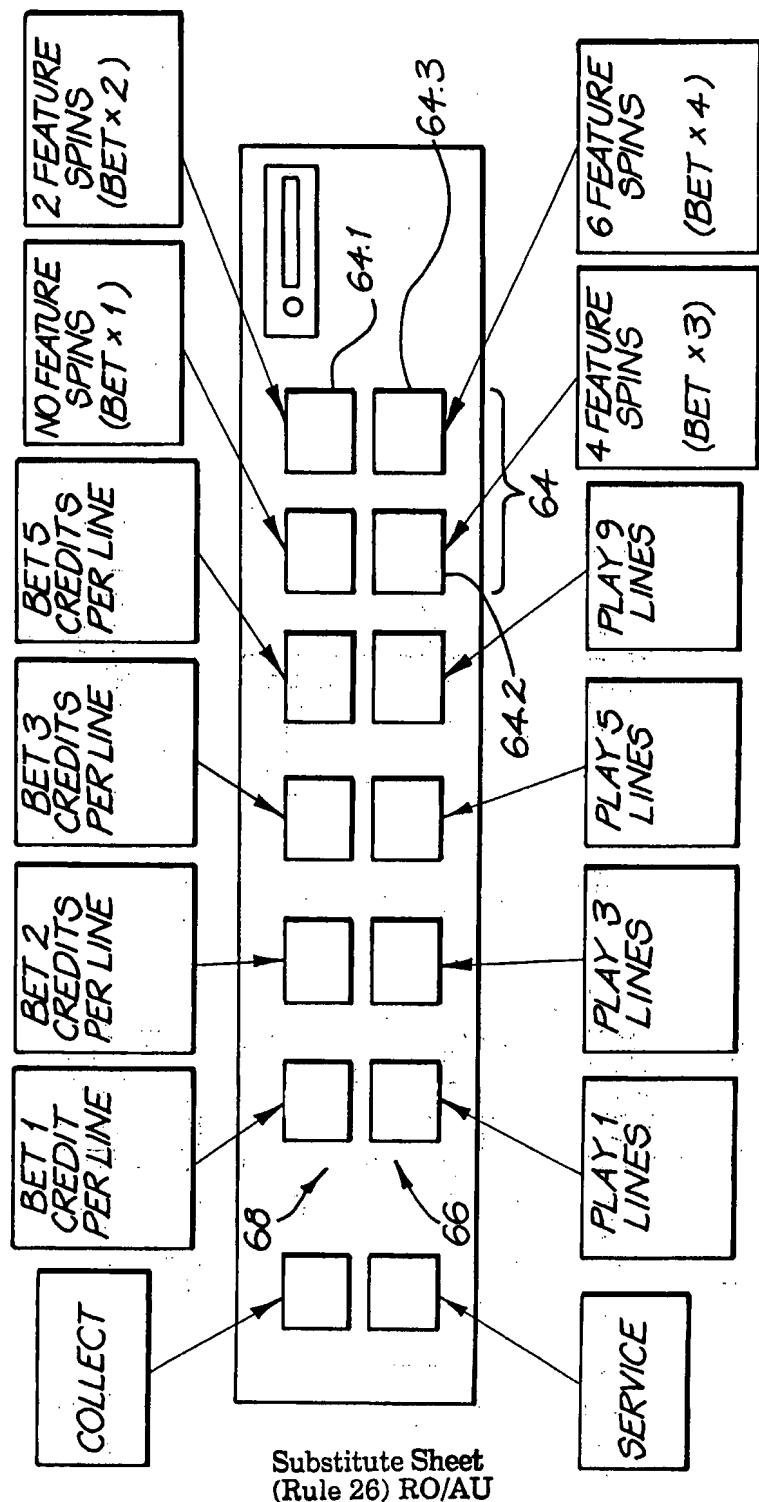


FIG. 3

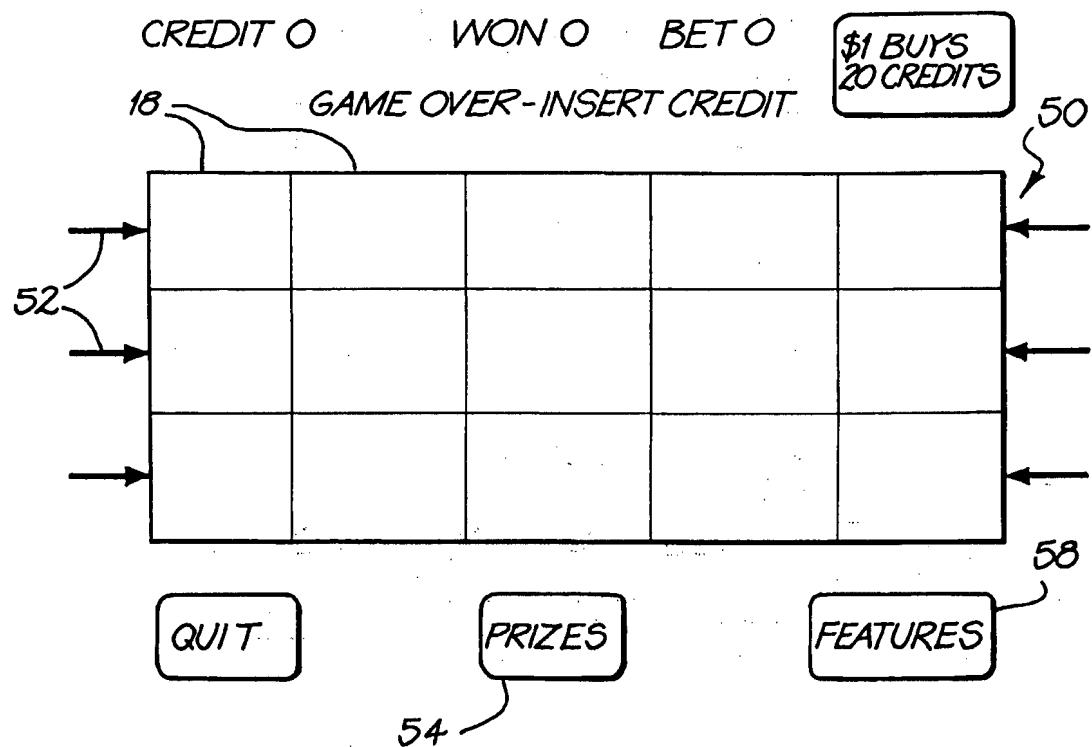


FIG. 4

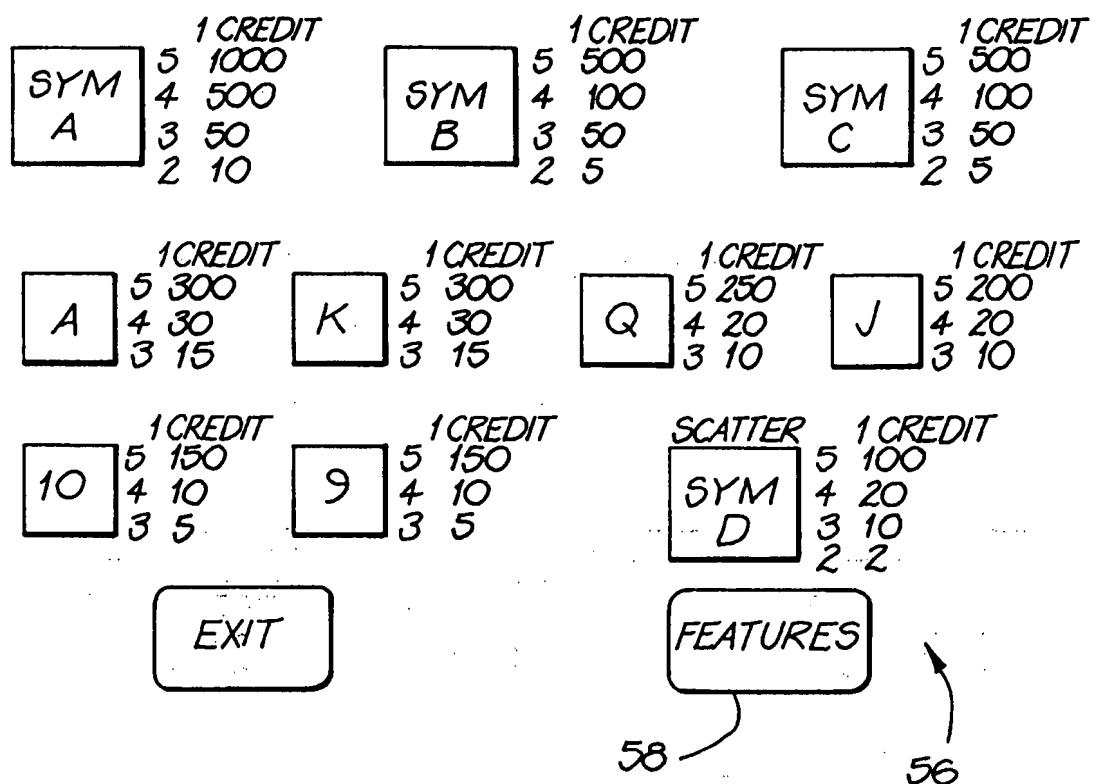


FIG. 5

1. SYM A substitutes for all symbols.  
COST = 1 credit  
(x total bet)  
per game
2. All pays are ANY'S.  
COST = 5 credits  
(x total bet)  
per game
3. 3 or more scatters starts 10 free games.  
COST = 2 credits  
(x total bet)  
per game
4. Any SYM A win is repeated by no of SYM D in next 5 games.  
COST = 10 credits  
(x bet per line)
5. SYM A pays ANY scattered  
COST = 2 credits  
(x total bet)  
per game
6. Any scatter win is repeated by the no. of SYM A on the screen.  
COST = 3 credits
7. Any 4 of a kind re-spins the remaining reel.  
COST = 5 credits  
per game
8. All wins with SYM A substitute are quadrupled.  
COST = 2 credits  
(x bet per line)
9. Scatter win gives a free game for every extra credit bet per game
10. All symbols pay scattered.  
COST = 20 credits  
(x total bet)  
per game
11. SYM B substitutes for all symbols.  
COST = 50 credits  
(x bet per line)

EXIT

60

FIG. 6

62

1. SYM A substitutes for all symbols.

2. All pays are ANYs.

3. 3 or more scatters starts 10 free games.

4. Any SYM A win is repeated by no. of SYM D in next 5 games.

5. SYM A pays ANY scattered

6. Any scatter win is repeated by the no. of SYM A on the screen.

7. Any 4 of a kind re-spins the remaining reel.

8. All wins with SYM A substitute are quadrupled.

9. Scatter win gives 5 bonus games where all wins are doubled.

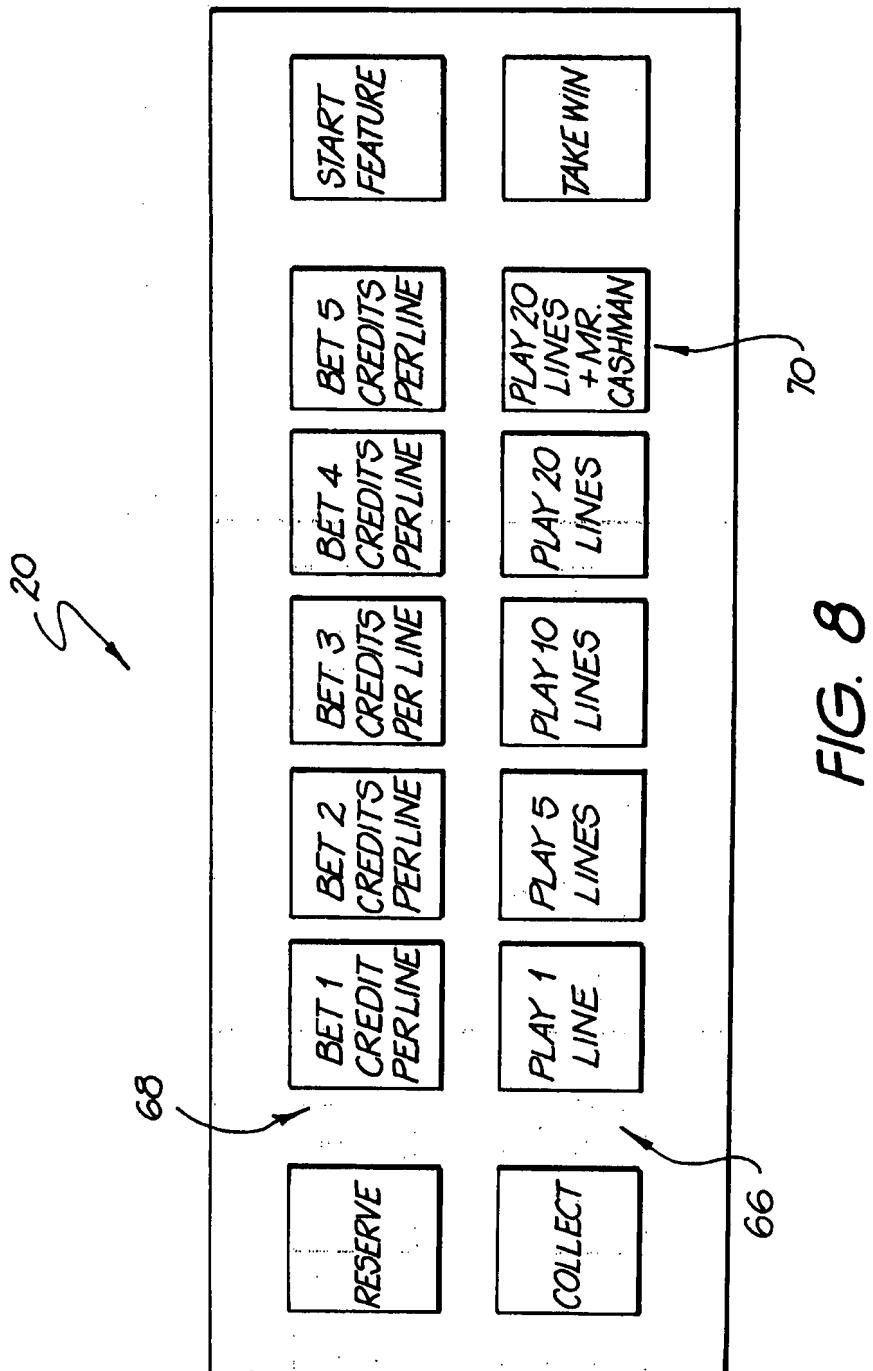
10. All symbols pay scattered.

11. SYM B substitutes for all symbols.

Cost is 1 credit per game for each feature selected or 5 features for 4 credits per game

EXIT

FIG. 7



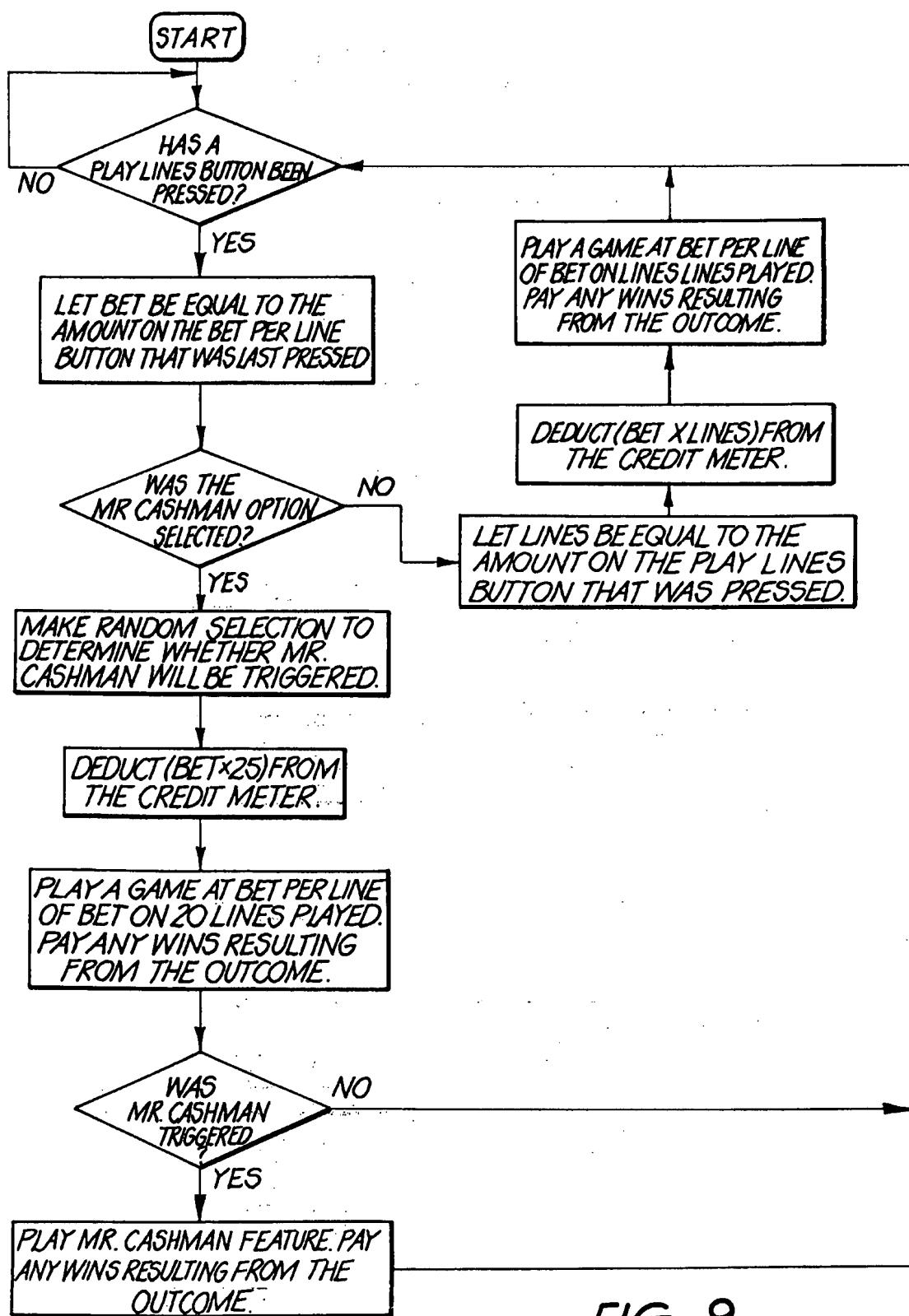


FIG. 9

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU00/00997

## A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: G06F 19/00, 161:00, A63F 5/04, 13/00, G07F 17/34

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC : G06F 19/00, 161:00, A63F 5/04, 13/00, G07F 17/34

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
AU : IPC AS ABOVE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
WPAT, USPTO Web Patent Database, Esp@cenet, "fruit machine, poker machine, slot machine, gaming machine, side game, second chance, extra spin etc"

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	AU, A, 70382/94 (CREATIVE ARRANGEMENTS PTY LTD) 17 August 1995 Page 2 lines 1 to 9 and claim 1 in particular.	1,13
Y	In combination with US 5704835 below.	14
X	DE, A, 2938307 (GAUSELMANN) 9 April 1981 Page 10 as well as figures 1 and 2.	1,13
Y	In combination with US 5704835 below.	14
X	GB, A, 2098778 (QUESTENCO LIMITED) 24 November 1982 Page 1 line 84 to page 2 line 20 in particular.	1,10,13
Y	In combination with US 5704835 below.	14
X	GB, A, 2056737 (MAYGAY MACHINES LIMITED) 18 March 1981 Page 1 lines 83 to 92 and page 1 line 129 to page 2 line 1 in particular.	1,2,13
Y	In combination with US 5704835 below.	14

Further documents are listed in the continuation of Box C  See patent family annex

\* Special categories of cited documents:

- "A" Document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search  
4 October 2000

Date of mailing of the international search report  
- 9 OCT 2000

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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/AU00/00997

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US, A, 5704835 (DIETZ, II) 6 January 1998 Column 4 lines 4 to 34, column 6 lines 36 to 51 and column 7 line 65 to column 8 line 18.	1,2,10,11,13,14

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/AU00/00997

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

**Patent Document Cited in Search  
Report**

**Patent Family Member**

GB 2098778      GB 2097570

**END OF ANNEX**